Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009

Message Text

LIMITED OFFICIAL USE

PAGE 01 BOMBAY 01574 041305Z
ACTION OES-07

INFO OCT-01 NEA-10 ISO-00 L-03 NRC-05 FEA-01 USIE-00
INRE-00 ERDA-05 AID-05 CEA-01 CIAE-00 COME-00
EPG-02 DODE-00 EB-07 FPC-01 H-01 INR-07 INT-05
NSAE-00 NSC-05 OMB-01 PM-04 SP-02 SS-15 STR-04
TRSE-00 ACDA-07 SSO-00 NSCE-00 /099 W
----------049055 041309Z /53
O R 041214Z JUL 77
FM AMCONSUL BOMBAY
TO SECSTATE WASHDC NIACT IMMEDIATE 7423
INFO AMEMBASSY NEW DELHI

LIMITED OFFICIAL USE BOMBAY 1574

FOR DENNIS KUX NEA/INS

E.O. 11652 N/A
TAGS: TECH, ENGR, IN
SUBJ: TARAPUR LICENSE

REF: STATE 154148

THERE FOLLOWS A STATEMENT BY J.C. SHAH, DATED JULY 4, 1977, RESPONDING TO REQUEST IN PARA 4 FOR IAEC VIEES ON CONSEQUENCES OF A DELAY OF A FEW WEEKS OR EVEN MONTHS IN LIFTING OF COURT ORDER STAYING SHIPMENT OF XSNM-845.

QUOTE. THE VULNERABILITY OF TAPS AND NFC OPERATIONS TO DELAYS STEMMING FROM DELAYED SUPPLY OF ENRICHED URANIUM FROM U.S. HAS BEEN EXPLAINED AT LENGTH IN VARIOUS COMMUNICATIONS TO U.S. AUTHORITIES AND TO THEIR REPRESENTATIVES PERSONALLY ON NUMEROUS OCCASIONS. THE LATEST ACTION OF THE INTERVENORS HAS ALREADY CAUSED SUFFICIENT CONCERN TO EVOKE URGENT AND ANXIOUS QUESTIONS IN OUR PARLIAMENT.
THE UNCERTAINTIES TO WHICH SUPPLY OF FUEL TO TAPS
LIMITED OFFICIAL USE

LIMITED OFFICIAL USE

PAGE 02 BOMBAY 01574 041305Z

HAS BEEN SUBJECTED HAVE ALREADY CHANGED THE EMPHASIS IN FUEL CYCLE PLANNING FROM ONE OF OPTIMIZING BURN-UPS AND THE STATION CAPACITY FACTOR TO ONE THAT KEEPS THE STATION OPERATIONAL LONGEST, WITH REDUCED OUTPUTS AND/OR SHORTER CYCLES. FOR INSTANCE, FOR UNIT 1, NOT ONLY WAS THE OUTPUT REDUCED TO 60-65 PERCENT OF RATED TO PERMIT AN EXTRA MONTH OF OPERATION BEFORE SHUTDOWN FOR REFUELING THIS FEBRUARY,

Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009

Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009

BUT ONLY 60 BUNDLES WERE REPLACED INSTEAD OF THE 85
OR SO ANTICIPATED IN THE SCHEDULE ATTACHED TO THE LAST/
KIEFER REPORT. THIS ARRANGEMENT WAS SELECTED AFTER EVALUATING
AS MANY AS 17 REFUELING ALTERNATIVES.
ANOTHER STRATEGY PRESENTLY UNDER ACTIVE CONSIDERATION,
WHICH MAY HAVE TO BE IMPLEMENTED IF THE FUEL SUPPLIES ARE
DELAYED, IS THE REDUCTION IN PUTPUTS OF EITHER OR BOTH
UNITS BY UP TO 30 PERCENT.
OPERATIONAL ADJUSTMENTS OF THIS NATURE SERIOUSLY
RESTRICT AN ABILITY TO COORDINATE TAPS OUTAGE SCHEDULES WITH
THOSE OF THE OTHER STATIONS IN THE WESTERN REGION. FOR
INSTANCE, BY REDUCING THE DESIGNED OPERATING CYCLE LENGTH
ON RECENTLY REFUELLED UNIT 1, WE CANNOT COINCIDE ITS NEXT
OUTAGE WITH THE SEASONAL LOAD DROP IN THE 1978 MONSOON
WITHOUT RESTORTING TO REDUCED OUTPUT IN THE MEANWHILE.
ANOTHER UNDERSIABLE CONSEQUENCE OF DELAY IN SUPPLY
AS FAR AS TARAPUR IS CONCERNED WOULD BE THAT WE WILL BE
COMPELLED TO UNDERTAKE THE NEXT TWO REFUELLINGS WITH
INADQUATE FUEL BUNDLES IN HAND. IT WOULD BE RECALLED
THAT IN CONSULTATION WITH DR. LAST AND MR. KIEFER, A
NUMBER OF 170 BUNDLES WAS DERIVED FOR THIS PURPOSE.
WHILE DIRECT OPERATIONAL AND ECONOMIC PENALTIES
WHICH TAPS WILL HAVE TO BEAR FROM DELAYS IN THE SUPPLY
OF FUEL ARE BAD ENOUGH, ITS CONSEQUENCES THROUGH REDUCED
AVAILABILITY OF ENERGY TO THE WESTERN REGION ARE MUCH
WORSE. A REFERENCE TO THIS HAS BEEN MADE IN THE LAST-
LIMITED OFFICIAL USE

LIMITED OFFICIAL USE

PAGE 03 BOMBAY 01574 041305Z

KIEFER REPORT AND ITS IMPORTANCE CANNOT BE OVER-EMPHASIZED.
THE NUCLEAR FUEL COMPLES HAS ALREADY STARTED
EXPERIECING THE ADVERSE EFFECTS OF NON-AVAILABILITY OF
FRESH FUEL AFTER FEBRUARY THIS YEAR. ITS SET PROCEDURES
HAVE HAD TO BE ALTERED CONSIDERABLY TO PROCESS SCRAP ALONE,
INVOLVING CORRESPONDING ENGINEERING AND SCHEDULING EFFORTS.
THE PLANT OUTPUT WAS AS LOW AS 20 PERCENT IMMEDIATELY
AFTER THE PROCESSING OF SCRAP ONLY COMMENCED IN MARCH
THIS YEAR. SPECIAL EFFORTS DID HELP IN IMPROVING
THIS TO A LITTLE OVER 35 PERCENT FOR A SPECIFIC BATCH BUT THIS
IS WELL BELOW PAR AND CONSEQUENTLY UNECONMIC; NOR CAN WE
EXPECT SPECIAL EFFORTS TO CONTINUE INDEFINITELY.
IT MUST BE NOTED THAT SUBSTANTIAL AND ON-GOING DEVIATIONS
FROM NORMAL PRACTICES IN SOMETHING AS COMPLICATED AS A FUEL
FABRICATION FACILITY ARE BOUND TO ERODE THE QUALITY CONTROL
STANDARDS WHICH REQUIRE UNUSUAL EFFORTS TO SET UP IN A
DEVELOPING COUNTRY. THEIR ADVERSE EFFECTS WILL MANIFEST
THEMSELVES IN FUEL DEFECTS MUCH LATER.
IN THE EVENT OF FRESH SUPPLIES GETTING DDLAYED BY A
FEW WEEKS, NFC WILL CONTINUE TO HAVE TO WORK ON SCRAP
ALONE WITH THE DISADVANTAGE MENTIONED ABOVE. IF THE DELAY
IS PROTRACTED TO MONTHS, NFC'S ENRICHED URANIUM PLANT

Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009

Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009

WILL COME TO A STANDSTILL BY NO LATER THAN NOVEMBER THIS YEAR. THIS WILL INEVITABLY LEAD TO CONSIDERABLE LABOUR UNREST, HEAVY OVERHEADS, ETC. IN AN INTEGRATED INDUSTRIAL PLANT LIKE NFC, THE RESULTING SITUATION IS BOUND TO DISLOCATE PRODUCTION IN ALLIED UNITS AND CAUSE THE LABOUR PROBLEMS TO SPREAD.

ON THE WHOLE, IT SOULD BE BORNE IN MIND THAT BOTH TARAPUR AND NFC ARE RELATIVELY SMALL OPERATIONS IN THE LIGHT WATER REACTOR FIELD UNDERTAKEN AT A SUBSTANTIAL EXPENSE VERY LARGELY ON THE STRENGTH OF U.S. COOPERATION AND COMMITEMENTS. ALREADY BOTH THESE FACILITIES HAVE BEEN SUBJECTED TO STRESSES QUITE OUT OF PROPORTION TO THEIR RESOURCES. UNLESS THEY ARE PERMITTED AND ENABLED TO FUNCTION WITHOUT SUCH CRIPPLING CONSTRAINTS, THE END

LIMITED OFFICIAL USE

LIMITED OFFICIAL USE

RESULTS CANNOT BUT DETRACT FROM SMOOTH BILATERAL COOPERATION BETWEEN OUR TWO COUNTRIES IN THE NUCLEAR FIELD. SIGNED: J.C. SHAH). END QUOTE.
COURTNEY

LIMITED OFFICIAL USE

NNN

Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009

Message Attributes

Automatic Decaptioning: X
Capture Date: 01-Jan-1994 12:00:00 am
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: NUCLEAR COOPERATION PROGRAMS, NUCLEAR FUELS, EXPORT LICENSES
Control Number: n/a
Copy: SINGLE
Sent Date: 04-Jul-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 22 May 2009
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1977BOMBAY01574
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Expiration:
Film Number: D770237-0619
Format: TEL
From: BOMBAY
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1977/newtext/t19770794/aaaaddrb.tel
Line Count: 140
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE, ON MICROFILM
Message ID: 56345171-c288-dd11-92da-001cc4696bcc
Office: ACTION OES
Original Classification: LIMITED OFFICIAL USE
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 3
Previous Channel Indicators: n/a
Previous Classification: LIMITED OFFICIAL USE
Previous Handling Restrictions: n/a
Reference: 77 STATE 154148
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 28-Feb-2005 12:00:00 am
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 1972858
Secure: OPEN
Status: NATIVE
Subject: TARAPUR LICENSE
TAGS: TECH, ENRG, IN
To: STATE
Type: TE
vdkvgwkey: odbc://SAS/SAS.dbo.SAS_Docs/56345171-c288-dd11-92da-001cc4696bcc
Review Markings:
Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
22 May 2009
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009